MOTOROLA

Two-Way Radio
User's Guide



KEM-PK14190-18 **Model SX709 series**

For More Information

For further information, you may call at 1300 889 785 (Australia) or 0900 50 025 (Toll Call, New Zealand).

Safety and General Information

Important Information on Safe and Efficient Operation

Read This Information Before Using Your Radio.

The information provided in this document supersedes the general safety information in user guides published prior to December 1, 2002.

Transmit and Receive Procedure

Your two-way radio contains a transmitter and a receiver. To control your exposure and ensure compliance with the general population/uncontrolled environment exposure limits, always adhere to the following procedure:

- Transmit no more than 50% of the time.
- To receive calls, release the PTT button.
- To transmit (talk), press the Push to Talk (PTT) button.

Transmitting 50% of the time, or less, is important because the radio generates measurable RF energy exposure only when transmitting (in terms of measuring standards compliance).

Exposure to Radio Frequency Energy

Your Motorola two-way radio complies with the following RF energy exposure standards and guidelines:

- United States Federal communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronics Engineers (IEEE) C95.1-1999 Edition
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998
- Ministry of Health (Canada) Safety Code 6. Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 KHz to 300 GHz, 1999
- Australian communications Authority Radiocommunications (Electromagnetic Radiation—Human Exposure) Standard, 2003
- ANATAL ANNEX to Resolution No. 303 of July 2, 2002 "Regulation of limitation of exposure to electrical, magnetic and electromagnetic fields in the radio frequency range between 9 KHz and 300GHz" and "Attachment to resolution #303 from July 2, 2002"

To assure optimal radio performance and make sure human exposure to radio frequency electromagnetic energy is within the guidelines set forth in the above standards, always adhere to the following procedures.

Portable Radio Operation and EME Exposure

Antenna Care

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the radio and may violate FCC regulations.

Do NOT hold the antenna when the radio is "IN USE." Holding the antenna affects the effective range.

Body-Worn Operation

To maintain compliances with FCC/Health Canada RF exposure guidelines, if you wear a radio on your body when transmitting, always place the radio in a Motorola-supplied or approved clip, holder, holster, case or body harness for this product. Use of non-Motorola-approved accessories may exceed FCC/Health Canada RF exposure guidelines.

If you do not use one of the Motorola-supplied or approved body-worn accessories and are not using the radio held in the normal use position, **ensure the radio and its antenna are at least 1 inch (2.5 cm) from your body when transmitting.**

Data Operation

If applicable, when using any data feature of the radio with or without an accessory cable, **position the radio and its antenna at least one inch (2.5 cm) from the body**.

Approved Accessories

For a list of approved Motorola accessories, visit out Web site at www.Motorola.com.

Electromagnetic Interference/Compatibility

Note: Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed or otherwise configured for electromagnetic compatibility. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference; and
2. This device must accept any interference received, including interference that may cause undesired operation.

Facilities

To avoid electromagnetic interference and/or compatibility conflicts, turn off your radio in any facility where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy.

Aircraft

When instructed to do so, turn off your radio when onboard an aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions.

Medical Devices – Pacemakers

The Advanced Medical Technology Association recommends that a minimum separation of 6 inches (15 cm) be maintained between a handheld wireless radio and a pacemaker. These recommendations are consistent with the independent research by and recommendations of the U.S. Food and Drug Administration.

People with pacemakers should:

- ALWAYS keep the radio more than 6 inches (15 cm) from their pacemaker when the radio is turned ON.
- Not carry the radio in the breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- Turn the radio OFF immediately if there is any reason to suspect that interference is taking place.

Medical Devices – Hearing Aids

Some digital wireless radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

Safety and General Use While Driving

Check the laws and regulations regarding the use of radios in the area where you drive, and always obey them. If you do use your radio while driving, please:

- Give full attention to driving and to the road.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call if driving conditions so require.

Do not place a portable radio in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a portable radio is placed in the air bag deployment area and the air bag inflates, the radio may be propelled with great force and cause serious injury to occupants of the vehicle.

Potentially Explosive Atmospheres

Turn off your radio prior to entering any area with a potentially explosive atmosphere. Only radio types that are especially qualified should be used in such areas as "Intrinsically Safe." Do not remove, install or charge batteries in such areas. Sparks in a potentially explosive atmosphere can cause an explosion or fire resulting in bodily injury or even death.

Note: The areas with potentially explosive atmospheres referred to above include fueling areas such as below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or particles (such as grain, dust or metal powders) and any other area where you would normally be advised to turn off your vehicle engine. Areas with potentially explosive atmospheres are often—but not always—posted.

Blasting Caps and Areas

To avoid possible interference with blasting operations, turn off your radio when you are near electrical blasting caps, in a blasting area, or in areas posted "Turn off two-way radios." Obey all signs and instructions.

Operational Cautions

Antennas

Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.

Batteries

All batteries can cause property damage and/or bodily injury such as burns if a conductive material—like jewelry, keys or beaded chains—touch exposed terminals. The conductive material may complete an electrical circuit (short circuit) and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse or other container with metal objects.

Battery Charger Safety Instructions:

Save these Instructions

1. Do not expose the charger to rain or snow.
2. Do not operate or disassemble the charger if it has received a sharp blow, or has been dropped or damaged in any way.
3. Never alter the AC cord or plug provided with the unit. If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician. An improper condition can result in a risk of electric shock.
4. To reduce the risk of damage to the cord or plug, pull the plug rather than the cord when disconnecting the charger from the AC receptacle.
5. To reduce the risk of electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning.
6. Use of an attachment not recommended or sold by Motorola may result in a risk of fire, electric shock or personal injury.
7. Make sure the cord is located so it will not be stepped on, tripped over or subjected to damage or stress.
8. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of a fire and/or electric shock. If an extension cord must be used, make sure that:
 - The pins on the plug of the extension cord are the same number, size and shape as those on the plug of the charger.
 - The extension cord is properly wired and in good electrical condition.
 - The cord size is 18 AWG for lengths up to 100 feet, and 16 AWG for lengths up to 150 feet.

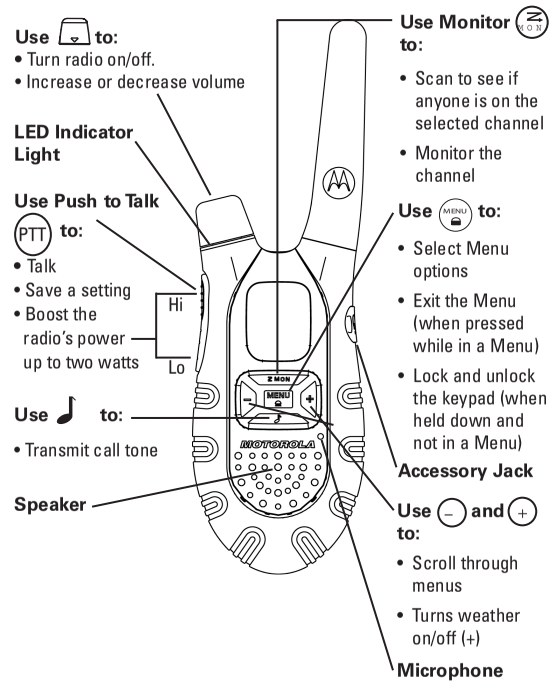
No Licence is required to own or operate this device in Australia and New Zealand.

Radiocommunications (Citizen Band Radio Stations) Class Licence 2002

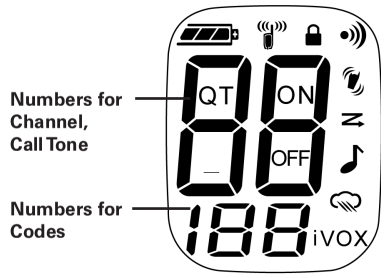
The Radiocommunications (Citizen Band Radio Stations) Class Licence 2002 contains the technical parameters, operating requirements, conditions of licence and relevant standards for Citizen Band (CB) radios. CB radios must comply with the class licence for their use to be authorised under the class licence.

The Radiocommunications (Citizen Band Radio Stations) Class Licence 2002 was signed by the Australian Communications Authority on 7 February 2002 and issued by a notice published in the Commonwealth of Australia Gazette on 13 February 2002. The Radiocommunications (Citizen Band Radio Stations) Class Licence 2002 replaces the Citizen Band Radio Stations Class Licence.

Control Buttons



Display Screen Guide



– Battery Meter
– Channel Indicator
– Lock
– Talk Confirmation Tone (Roger Beep)
QT – Noise Filtering
ON OFF – On/Off for each feature
– Vibrate
– Scan
– Call Tone, Keypad Tone
– Weather Alert
iVOX – Hands-Free Use Without Accessories

Getting Started

Installing the Batteries:

Your radio uses four AAA Alkaline batteries and beeps when the batteries are low.

1. Turn the radio off.
2. With the back of the radio facing you, lift the battery latch up to release the battery cover and remove the cover.
3. Insert four AAA Alkaline batteries as shown on the inside of the battery compartment.
4. Reposition the battery cover and press down to secure.

NOTE: The SX709 model radio can use a NiMH rechargeable battery instead of four AAA batteries.

Installing the NiMH Battery Pack:

1. Follow step 2 above to remove the battery cover.
2. Remove the battery pack from the clear plastic bag. **Do not disassemble or unwrap the battery pack.**
3. Insert the NiMH battery pack so the "This Side Up" is showing.
4. Reposition the battery cover and press down to secure.

Battery Meter

The battery icon shows the battery charge level, from full to empty. When the battery is empty, the radio chirps periodically after releasing PTT (Low Battery Alert). The radio powers off when the voltage drops below a predetermined level to protect the rechargeable battery.

Note: Remove the batteries before storing your radio for extended periods of time. Batteries corrode over time and may cause permanent damage to your radio.

Using the Desk Stand Charger (Optional Accessory)

The desk stand charger provides drop-in charging convenience for NiMH batteries and can be placed on any flat surface, such as a desk or workbench. Charge the NiMH battery overnight (at least 16 hours) before using it for the first time. After the initial charge, an empty battery is fully charged within 14 hours.

1. Follow the steps above to install a NiMH Battery Pack.
2. Plug the AC power supply into the plug on the desk stand.
3. Plug the AC power supply into a standard wall outlet.
4. With a radio facing forward, slide it into one of the charging pockets.

Notes

- The light on the desk stand charger will glow continuously when radio/battery is inserted.
- When moving between hot and cold temperatures, do not charge the battery until the battery temperature acclimates (usually about 20 minutes).
- For optimal battery life, remove the radio or battery from the charger within 16 hours. Do not store the radio in the charger.
- Turn radio off while in charging tray.

Using the Belt Holster

Your radio includes a holster so you may carry it easily on your belt.

1. Adjust the holster's clip so it fits onto your belt.
2. Slide your radio into the holster.

Turning Your Radio On and Off

Turn clockwise to turn the radio on and counterclockwise to turn the radio off.

1. The radio chirps and briefly shows all features icons available on your radio.
2. The display then shows the current channel, code and features that are selected.

Setting the Volume

Press and hold (MONI) while rotating until you reach a comfortable listening level.

1. Rotate clockwise to increase the volume
2. Rotate counterclockwise to decrease the volume.

Do not hold the radio close to your ear. If the volume is set to an uncomfortable level, it could hurt your ear.

Talking and Listening

To communicate, all radios in your group must be set to the same channel and Interference Eliminator Code.

1. To talk, press and hold PTT.
2. When you are finished talking, release PTT.

For maximum clarity, hold the radio two to three inches away from your mouth and speak directly into the microphone. Do not cover the microphone while talking.

Talk Range

Your radio is designed to maximize performance and improve transmission range. Do not use the radios closer than five feet apart.

Power Boost

To boost your radio's power up to two watts, press the top portion of the PTT button when talking. If you know your party is close by, you can conserve your battery's energy by pushing the lower part of the PTT button to use less power.

Monitor Button

Pressing and holding for three seconds allows you to listen to the volume level of the radio when you are not receiving. This allows you to adjust the volume, if necessary. You can also press and hold to check for activity on the current channel before you talk.

Push to Talk (PTT) Timeout Timer

To prevent accidental transmissions and save battery life, the radio emits a continuous warning tone and stops transmitting if you press PTT for 60 continuous seconds.

Initial Setup

Selecting the Channel

Your radios has 40 channels. When you press the bottom portion of the PTT all channels are 0.5 Watts displays. If you press the top portion of the PTT to boost the power channels will be 2 Watt, displays.

1. With the radio on, press (MENU). The current channel flashes.
2. Press + or – to set the channel.
3. Press PTT to save the channel setting or (MENU) to continue set up.

UHF Channels and Frequencies

Important Notes

Channels 5 and 35 (paired for Duplex repeaters) are reserved as emergency channels. Channel 11 is a calling channel generally used to find others. Once contact is established on the calling channel, both stations should move to another unused "SIMPLEX" channel to allow others to use the calling channel. Channels 22 and 23 are for Telemetry and Telecommand use, voice communications are not allowed on these channels by law.

Channels marked Duplex are reserved for repeater use in some areas. These are paired with higher channels as output/input (1/31, 2/32, etc.) Check for local repeater activity before using these channels in Simplex mode to avoid interference. Channels 9 and above are the best choices for general use in Simplex mode.

Channel	Frequency (MHz)	Usage	Channel	Frequency (MHz)	Usage
1	476.425	Duplex RX/Simplex	21	476.925	Simplex
2	476.450	Duplex RX/Simplex	22	476.950	No Use
3	476.475	Duplex RX/Simplex	23	476.975	No Use
4	476.500	Duplex RX/Simplex	24	477.000	Simplex
5	476.525	Emergency	25	477.025	Simplex
6	476.550	Duplex RX/Simplex	26	477.050	Simplex
7	476.575	Duplex RX/Simplex	27	477.075	Simplex
8	476.600	Duplex RX/Simplex	28	477.100	Simplex
9	476.625	Simplex	29	477.125	Simplex
10	476.652	Simplex	30	477.150	Simplex
11	476.675	Simplex (Calling Channel)	31	477.175	Duplex TX/Simplex
12	476.700	Simplex	32	477.200	Duplex TX/Simplex
13	476.725	Simplex	33	477.215	Duplex TX/Simplex
14	476.750	Simplex	34	477.250	Duplex TX/Simplex
15	476.775	Simplex	35	477.275	Emergency
16	476.800	Simplex	36	477.300	Duplex TX/Simplex
17	476.825	Simplex	37	477.325	Duplex TX/Simplex
18	476.850	Simplex	38	477.350	Duplex TX/Simplex
19	476.875	Simplex	39	477.375	Simplex
20	476.900	Simplex	40	477.400	Simplex

You can find more information about channels and frequencies by visiting the Web site http://www.acma.gov.au/ACMAINTER.786700:STANDARD:1627891715:pc=PC_1265#Repeaters

Duplex Mode

Repeater stations can re-transmit your signal over a wider area giving you extended range depending on the location, height and availability of the local repeater station. Your radio supports duplex mode on channels 1-8. If the repeater channel in your area is channel 1, when you are in duplex mode the transmit channel will be channel 31.

1. Select the repeater channel in your area (channel 1 to channel 8).
2. Press +, the current setting On/Off displays.
3. Press + or – to select On/Off to activate/deactivate the duplex function.

Interference Eliminator Code

Interference Eliminator Codes help minimize interference by providing you with a choice of code combinations. Your radio has 121 Interference Eliminator Codes.

Some repeaters will require specifically setting these codes for access.

Note: Channel 5 and 35 have no codes because these two channels are emergency channels.

To set the code for a channel:

1. Short press (MENU) until the code starts to flash.
2. Press + or – to select the code.
3. Press PTT to save the code setting or (MENU) to continue set up.

You can set a different code for each channel using this procedure. An extended press of + or – allows you to scroll through the Interference Code rapidly so you can quickly reach the code you want.

Note: You must set the Interference Eliminator Code to 0 on a radio that uses Interference Eliminator Codes to communicate with radios that do not have Interference Eliminator Codes. Select 0 for "no tone, no code" and OFF will flash on your radio's display.

Continued on back

CTCSS Code Table

Code	Hz	Code	Hz	Code	Hz	Code	Hz
1	67	11	97.4	20	131.8	30	186.2
2	71.9	12	100	21	136.5	31	192.8
3	74.4	13	103.5	22	141.3	32	203.5
4	77	14	107.2	23	146.2	33	210.7
5	79.7	15	110.9	24	151.4	34	218.1
6	82.5	16	114.8	25	156.7	35	225.7
7	85.4	17	118.8	26	162.2	36	233.6
8	88.5	18	123	27	167.9	37	241.8
9	91.5	19	127.3	28	173.8	38	250.3
10	94.8			29	179.9		

CDCSS Code Octal Table

Code	Octal	Code	Octal	Code	Octal	Code	Octal
39	023	60	143	81	315	102	532
40	025	61	152	82	331	103	546
41	026	62	155	83	343	104	565
42	031	63	156	84	346	105	606
43	032	64	162	85	351	106	612
44	043	65	165	86	364	107	624
45	047	66	172	87	365	108	627
46	051	67	174	88	371	109	631
47	054	68	205	89	411	110	632
48	065	69	223	90	412	111	654
49	071	70	226	91	413	112	662
50	072	71	243	92	423	113	664
51	073	72	244	93	431	114	703
52	074	73	245	94	432	115	712
53	114	74	251	95	445	116	723
54	115	75	261	96	464	117	731
55	116	76	263	97	465	118	732
56	125	77	265	98	466	119	734
57	131	78	271	99	503	120	743
58	132	79	306	100	506	121	754
59	134	80	311	101	516		

Setting and Transmitting Call Tones

Your radio can transmit different call tones to other radios in your group so you can alert them that you want to talk. You have 10 call tones from which to choose.

To set a call tone:

1. With the radio on, short press MENU until the current call tone setting flashes and ♩ appears.
2. Press + or − to change and hear the call tone.
3. Press PTT to set the new call tone or MENU to continue set up.

To transmit your call tone to other radios set to the same channel and Interference Eliminator Code as your radio, press ♩ .

Note: Setting the call to 0 disables the call tone feature.

Hands-Free Use Without Accessories (iVOX)

You can use the iVOX feature to transmit, hands-free without the need for any voice activation accessories. Once iVOX is turned on, the radio detects your voice and transmits when you speak.

1. Short press MENU until iVOX appears on the display. The current setting On/Off will flash.
2. Press + or − to select On or Off.
3. Press PTT to set or MENU to continue set up.
4. To transmit, speak into the radio microphone. There is a short delay between the time you start talking and when the radio transmits.
5. To receive, stop talking.

Setting the Sensitivity Level When in VOX or iVOX Mode

Adjusting the radio's sensitivity level helps minimize the possibility of unintended noises triggering a transmission and helps the radio pick up soft voices.

1. Short press MENU until icon VOX or iVOX appears and the level number blinks.
2. Press + or − to select the sensitivity level.
3. Press PTT to set or MENU to continue set up.

3 = **High Sensitivity** for quiet environments
2 = **Medium Sensitivity** for most environments
1 = **Low Sensitivity** for noisy environments

Note: When you connect a VOX accessory or enable iVOX, the radio is automatically set to the respective last chosen sensitivity level.

See Special Features section on Accessories.

VibraCall™ Alert

VibraCall is a vibrating alert that notifies you that your radio is receiving a message. This is useful in noisy environments. When the alert is on, the radio vibrates once every 30 seconds when you receive a message on the channel and code you set.

1. To turn vibrating alerts on, press MENU until is displayed. The current setting will flash.
2. Press + or − to change the setting to Off/On.
3. Press PTT to set or MENU to continue set up.

QT Noise Filtering

The QT noise-filtering feature helps to ensure uninterrupted communication with other Motorola radios that have this feature. This feature filters out unwanted transmissions from other radios. This is useful in places where there is heavy radio traffic, such as amusement parks or ski resorts.

Note: QT noise filtering is not available when the radio is scanning.

To turn QT noise filtering on or off:

1. Short press MENU until QT displays. The current setting On/Off will flash.
2. Press + or − to turn noise filtering On or Off.
3. Press PTT to confirm your selection or MENU to continue set up.

To transmit to a radio that has QT noise filtering turned on:

1. Select the same channel and Interference Eliminator Code as the other radio.
2. Press ♩ to send a call tone. This allows your voice to pass through the QT noise filter on the receiving radio.
3. Press PTT and speak normally.

Note: If you skip step 2, the beginning of your message may not be heard on the receiving radio. For a 30-second period, starting after the last transmission, all transmissions received on the selected channel and code will pass through the QT noise filter.

Keypad Tones

You may enable or disable the speaker key tones. You will hear the key tone each time a button is pushed.

1. Press MENU until ♩ appears. The current setting On/Off will flash
2. Press either + or − to turn On or Off.
3. Press PTT to confirm or MENU to continue set up.

When the Key Tone Feature is off, the following are not disabled:

- Transmit timeout alert tone;
- Power-down alert tone;
- Low battery alert tone; or
- The transmitted Talk Confirmation Tone.

Transmitting a Talk Confirmation Tone

You can set your radio to transmit a unique tone when you finish transmitting. It is like saying "Roger" or "Over" to let others know you are finished talking.

1. With the radio on, press MENU until the appears. The current setting On/Off flashes.
2. Press + or − to turn On or Off.
3. Press PTT to set or MENU to continue set up.

Special Features

Keypad Lock

To avoid accidentally changing your radio settings:

1. Press and hold MENU until displays.
2. When in lock mode, you can turn the radio on and off, adjust the volume, receive, transmit, send a call tone, and monitor channels. All other functions are locked.

To unlock the radio, press and hold MENU until is no longer displayed.

Priority Scan

Use scan to monitor channels and codes for transmissions or to find someone in your group who has accidentally changed channels.

With priority scan, your home channel is scanned more frequently than any other channel. The home channel is the channel where your radio was set when you started to scan. If you activate scan while your radio's Interference Eliminator Code is set to a number between 1 and 121, the radio checks for activity on each programmed channel and code combination.

Notes:

- All transmissions using code 0 or any other code are ignored.
- The default code for each channel is 1.
- If scanning on code 0, all channels and code combinations are scanned.

1. To start scanning, briefly press and release SCAN. The scan indicator displays , and the radio begins to scroll through the channel but the 0 (if scanning on code 0) or "--" (two hyphens, if scanning on non zero code) won't scroll.
2. When the radio detects channel activity, it stops scanning and you can hear the transmission.
3. To respond and talk to the person transmitting, press PTT within five seconds.
4. To stop scanning, briefly press and release SCAN .

Note: If you press PTT while the radio is scanning, the radio will transmit on the channel you selected before you activated scan or the channel which the radio stops at and is listening to. If no transmission occurs within five seconds, scanning will resume.

Removing Channels from the Scan List (Nuisance Delete Feature)

1. To prevent the radio from scanning a channel, press and hold + or − for at least three seconds, then release, when the scan first stops on that channel. This temporarily removes the channel from the scan list.
2. Press SCAN to exit scan mode.
3. Press SCAN a second time to activate scan again.
4. To restore a previously deleted channel, turn the radio off and then back on or just repeat step 2 and step 3.

Note: You cannot remove your home channel from the scan list. The home channel is the channel your radio was set to when you started the scanning.

Using Audio Accessories:

Many accessories (sold separately) are available for your radio. For more information, visit our Web site at www.motorola.com.

Hands-Free Use With Accessories (VOX)

You can transmit hands-free with the use of optional accessories. Once VOX is turned on, the radio detects your voice and transmits when you speak.

1. Turn the radio off and plug the VOX accessory into the accessory port.
2. Turn the radio on. VOX shows on the display.
3. Adjust the volume appropriately by rotating . Lower the volume before placing the accessory on your head or in your ear.
4. To transmit, speak into the accessory microphone.
5. To receive, stop talking.
6. To turn off, simply remove the accessory.

Note: There is a short delay between the time you start talking and when the radio transmits. There is a short delay before the transmission is completed.

Patent and Copyright Information

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Warranty

Limited Warranty for Personal Communication Products, Accessories and Software Purchased in Australia or New Zealand.

What Does this Warranty Cover?

This limited warranty is a consumer's exclusive remedy, and applies as follows to new Motorola branded Products, Accessories and Software manufactured, distributed and sold by Giant International Ltd., Oricom is the local distributor in Australia & New Zealand, which warrants Motorola 2-way UHF Radio Products and Accessories (collectively "Equipment') purchased against defects in material and workmanship under normal use and service for the following period of time:
This express warranty is given in addition to any rights or remedies that may be available to the Customer under the Consumer Guarantees Act 1993 ("CGA"), and does not limit any rights and remedies available to the Customer under the CGA.
If the customer is a consumer (as that term is defined in the CGA) then:
A. This Warranty shall apply for the benefit of the Customer, and any Consumer acquiring from or through the Customer: and
B. Any of the provisions of this warranty which reduce, limit or are contrary to the guarantees and remedies contained in the CGA, shall be deemed deleted and omitted from this Warranty UNLESS the Customer is a Consumer who acquires the products for the purposes of a business, and the supplier of the products to the Customer has contracted out of the provisions of the CGA.

Products Covered	Length of Coverage
Products and Accessories as defined above, unless otherwise provided for below. **1. Decorative Accessories and Cases.** Decorative covers, bezels, PhoneWrap covers and cases. **2. Consumer Two-Way Radio Accessories.** **3. Products and Accessories that are Repaired or Replaced.**	**One (1) year** from the date of purchase by the first consumer purchaser of the product unless otherwise provided for below. **1. Limited lifetime warranty** for the lifetime of ownership by the first consumer purchaser of the product. **2. Thirty (30) days** from the date of purchase by the first consumer purchaser of the product. **3. The balance of the original warranty or for thirty (30) days** from the date returned to the consumer, whichever is longer.

Notes: You are required to provide proof of purchase as a condition of receiving warranty services. You are entitled to a replacement or repair according to the terms and conditions of this document if your product is found to be faulty within the Warranty Period. This Warranty extends to the original purchaser only and is not transferable.

Who is covered?

This warranty extends only to the first consumer purchaser, and is not transferable.

What will the distributor do?

Distributor, at its option, will at no charge repair, replace any products and Accessories that does not conform to this warranty. We may use functionally equivalent reconditioned/refurbished/pre-owned or new Products and Accessories or parts. No data, software or applications added to your Product, Accessory, including but not limited to personal contacts, games and ringer tones, will be reinstalled. To avoid losing such data and applications please create a back up prior to requesting service.

How to Obtain Warranty Service or other Information?

To obtain service or information, please call:

Oricom International Pty Ltd Australia call	Oricom International Pty Ltd New Zealand call
- 1300 889 785 **(cost of local call excludes calls from mobiles)**	**- 0900 50 025** **(Toll Call)**

For Accessories, please call the telephone number designated above for the product with which they are used.

You will receive instructions on how to ship the Products or Accessories, at your expense, to an authorised repair Center. To obtain service, you must include: (a) a copy of your receipt, bill of sale or other comparable proof of purchase; (b) a written description of the problem; (c) the name and location of the installation facility (if applicable) and, most importantly; (e) your address and telephone number.

Exclusions

Normal Wear and Tear. Periodic maintenance, repair and replacement of parts due to normal wear and tear are excluded from coverage.Batteries. Only batteries whose fully charged capacity falls below 80% of their rated capacity and batteries that leak are covered by this limited warranty.

Abuse & Misuse. Defects or damage that result from: (a) improper operation, storage, misuse or abuse, accident or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the product resulting from misuse; (b) contact with liquid, water, rain, extreme humidity or heavy perspiration, sand, dirt or the like, extreme heat, or food; (c) use of the Products or Accessories for commercial purposes or subjecting the Product or Accessory to abnormal usage or conditions; or (d) other acts which are not the fault of Motorola or Giant International Ltd., are excluded from coverage.

Use of Non-Motorola branded Products and Accessories. Defects or damage that result from the use of Non-Motorola branded or certified Products, Accessories, Software or other peripheral equipment are excluded from coverage.

Unauthorized Service or Modification. Defects or damages resulting from service, testing, adjustment, installation, maintenance, alteration, or modification in any way by someone other than Motorola, Giant International Ltd. or its authorized service centers, are excluded from coverage.

Altered Products. Products or Accessories with (a) serial numbers or date tags that have been removed, altered or obliterated; (b) broken seals or that show evidence of tampering; (c) mismatched board serial numbers; or (d) nonconforming or non-Motorola branded housings, or parts, are excluded from coverage.

Communication Services. Defects, damages, or the failure of Products, Accessories or Software due to any communication service or signal you may subscribe to or use with the Products Accessories or Software is excluded from coverage.

This Warranty in no way affects your statutory warranty rights under the Trade Practices Act 1974 or any other similar legislation. This Warranty does not extend to any product from which the serial number has been removed, was purchased outside of Australia or that has been damaged or rendered defective:

1. as a result of lightning, over voltage, accident, misuse, abuse or other external causes;
2. the operation outside the normal use of the product;
3. by the use of parts not manufactured or
4. Only batteries whose fully charged capacity falls below 80% of their rated capacity and batteries that leak are covered by this warranty.

Nothing in this Warranty excludes, restricts or modifies any condition, warranty, right or remedy which pursuant to the Trade Practices Act 1974 applies to this Warranty and which may not be so excluded, restricted or modified. For warranties that cannot be excluded, restricted or modified, Oricom limits the remedies available to those specified in the relevant legislation.

What Other Limitations Are There?

ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY, OTHERWISE THE REPAIR, REPLACEMENT, OR REFUND AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER, AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OF IMPLIED. IN NO

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